

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2004/033063

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 F01N3/023 F01N3/027 F01N3/035

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 F01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 404 795 A (KOBASHI KIYOSHI ET AL) 20 September 1983 (1983-09-20) column 4, line 36 - column 10, line 32; figures 2,5	1,3-6,9, 13-15,18
X	GB 892 659 A (SCHWEIZERISCHE LOKOMOTIV) 28 March 1962 (1962-03-28) the whole document	1,2,4,5, 12,18
X	US 4 902 309 A (HEMPENSTALL GEORGE T) 20 February 1990 (1990-02-20) abstract	1,3-7,18
A		8
X	EP 1 333 169 A (EBERSPAECHER J GMBH & CO) 6 August 2003 (2003-08-06) paragraph '0019! - paragraph '0037!; claim 1; figure 1	1,3-6, 10,11, 16,18
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

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P document published prior to the international filing date but later than the priority date claimed

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X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

B document member of the same patent family

Date of the actual completion of the international search

24 January 2005

Date of mailing of the international search report

31/01/2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 020 620 A (VOLKSWAGENWERK AG) 19 July 2000 (2000-07-19) paragraph '0020! - paragraph '0031! -----	1,2,4-7, 18

INTERNATIONAL SEARCH REPORT

Information on patent family members

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